





Spartan Chemical RA Prioritization Panel Meeting

March 2012





Background

- From 1952 to 1992, the Spartan Chemical Company operated as a bulk chemical transfer, blending, and repackaging plant. The company handled a variety of chemicals
- Numerous spills occurred from 1963 through 1990.
- Spartan Chemical site vacant since 1992.
- Michigan DEQ has been conducting site investigations and contaminated groundwater cleanup since 1984.
- Final Record of Decision (ROD) issued by USEPA in 2007
- Michigan DEQ finalizing the designs.

Property Summary

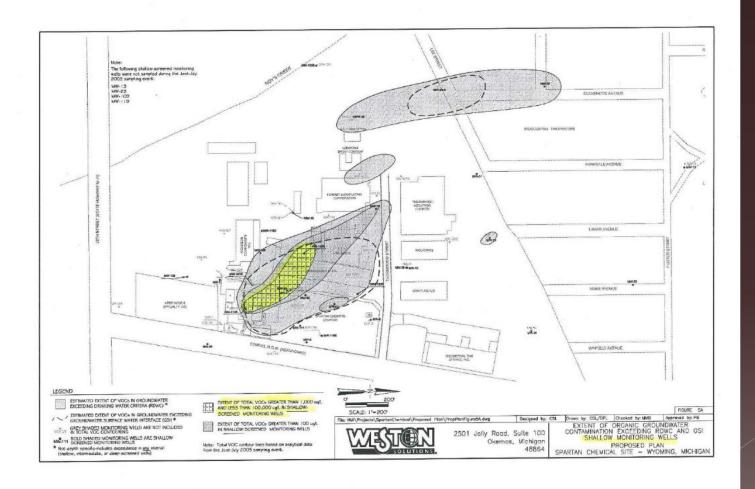
- 2539 28th Street Wyoming, Kent County
- Kent County owns property (tax reversion).
- Property is 5 acres in size and fenced.
 Northern 2/3 is "open" land, Southern
 1/3 was industrial. Two buildings and foundations remain.
- Municipal water/sanitary sewer in area.
- No private wells known to exist near property.
- Groundwater use and soil management deed restrictions are in place.
- Site is being monitored (groundwater sampling) and Remedial Designs are underway.



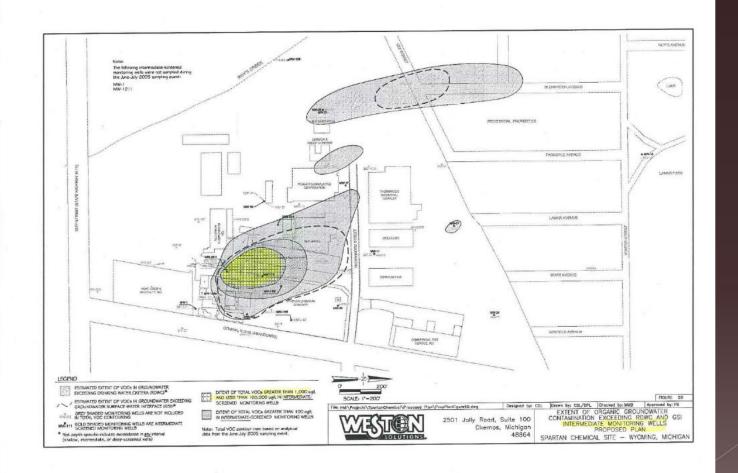
2007 Selected Remedy

- Soil Removal
- In-Situ Chemical Oxidation (ISCO)
- Air Sparge/ Soil Vapor Extraction (AS/SVE)
- Enhanced In-Situ Bioremediation (EISB)
- Monitored Natural Attenuation (MNA)
- Groundwater Monitoring
- Vapor Intrusion Assessment

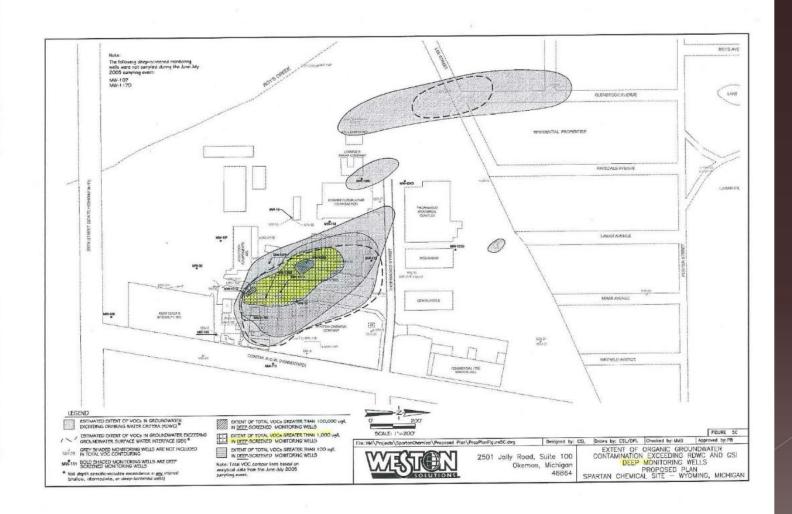
Shallow VOC Plume



Intermediate VOC Plume



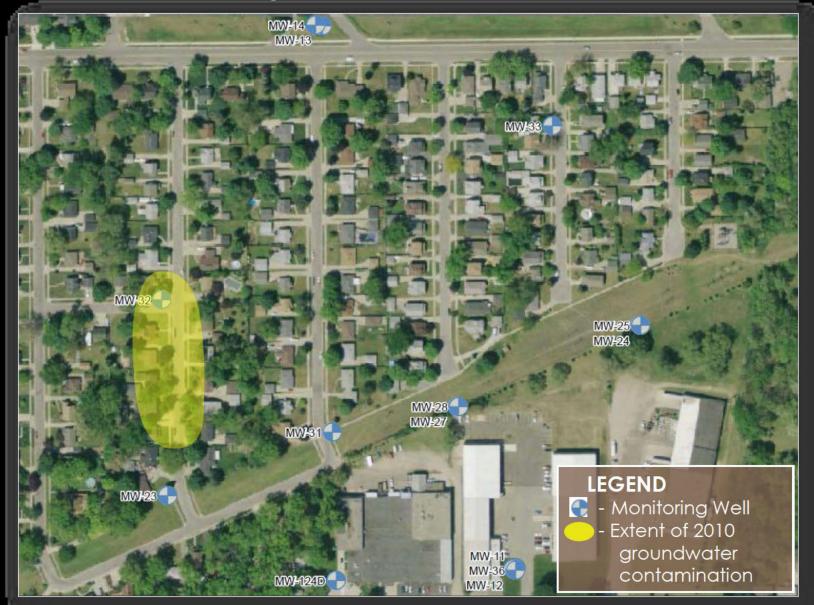
Deep VOC Plume



Potential Vapor Intrusion Areas - South



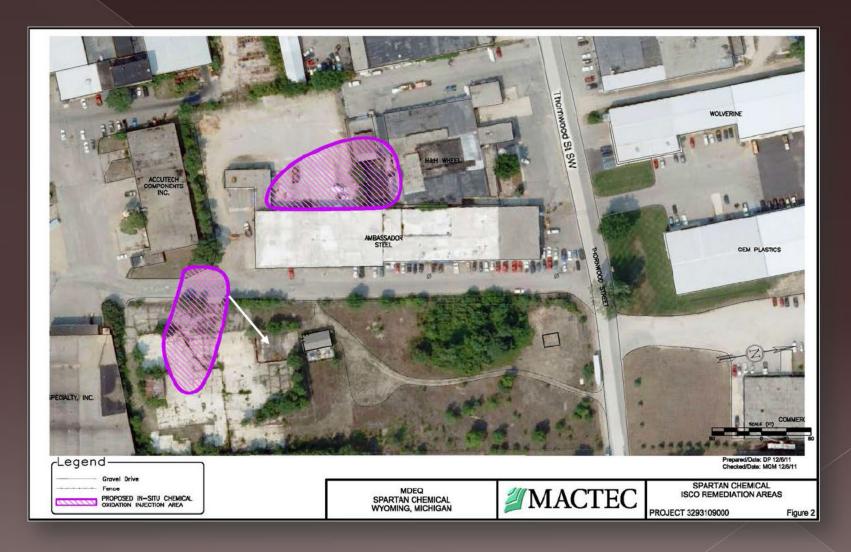
Potential Vapor Intrusion Areas - North



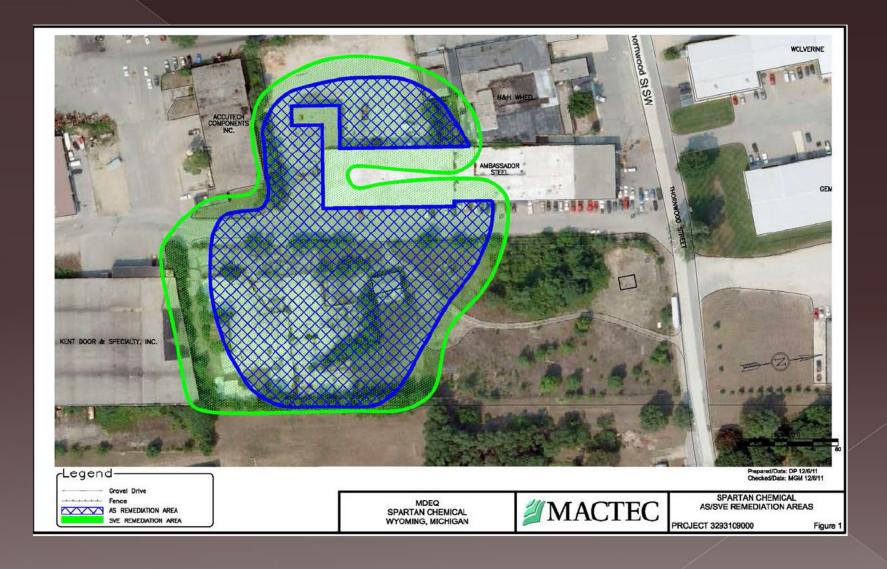
Soil Removal Areas



ISCO Remediation Areas



AS/SVE Remediation Areas



Site Factors for Consideration

- Elevated concentrations of VOCs, arsenic and lead at the surface
- Trespassing by students occurs with regularity
- Potential VI Problems
- Municipal Water Currently Available to Residents
- Final Actions for Site
 - CC and HEUC
- No Eco Threats